

2019 Arkansas Corn Standardized County Hybrid Trials



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Arkansas Corn Standardized County Hybrid Trials, 2019

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County	District	County Agent	Cooperator
*Arkansas	Southeast	Grant Beckwith & Phil Horton	
*Ashley	Southeast	Kevin Norton	
*Chicot	Southeast	Clay Gibson	
*Clark	Southwest	Amy Simpson	
Clay	Northeast	Stewart Runsick & Allison Howell	Zack Brown
*Craighead	Northeast	Branon Thiesse & Chris Grimes	
Cross	Northeast	Rick Wimberley	Penndale Farms
Desha	Southeast	John David Farabough	Frank Appleberry
*Faulkner	River Valley/SW	Kevin Lawson	
Greene	Northeast	L. Blythe, A. Davis, & D. Freeze	Boling Farm
Independence	Northeast	Nathan Reinhart	David Panky Jr.
Jefferson	Southeast	Kurt Beaty	Kris Baker
Lawrence/Randolph	Northeast	Bryce Baldrige & Mike Andrews	Ron Cavanaugh
Lee	Central	Stan Baker	Dept of Corrections
*Lincoln	Southeast	Steven Stone	
*Miller	River Valley/SW	Jennifer Caraway	
Mississippi	Northeast	Shawn Lancaster	Jason Bennett
Monroe	Southeast	Andrew Sayger	Todd & Taylor Smith
Poinsett	Northeast	Craig Allen & Jeffery Works	Dustin Faulkner
*Prairie	Central	Brent Griffin & Amy Carroll	
St. Francis	Central	Cody Griffin	West Higgins
White	Central	Jan Yingling	Keith Feather
*Woodruff	Central	Brett Gordon	
Yell	River Valley	Bob Powell	Chris Mans

* Data not reported due to loss of trial or variability of harvest data.

INTRODUCTION

The 2019 growing season was the twelfth year for the Corn Standardized County Hybrid Trial Program. The program's goal is to increase knowledge on selected hybrids that are being evaluated in the University of Arkansas Corn Hybrid testing program (<https://aaes.uark.edu/variety-testing/>). The trials were a collaborative effort between growers, County Extension agents, Extension specialists, and industry representatives. In the trials, producers followed their normal production practices they use on their farms. The cooperation of all producers mentioned in this publication is appreciated. Producers donate time, equipment and hired labor to make these trials possible.

Trials were separated into four districts and within each district, hybrids entered were consistent. Districts included the Northeast, Central, Southeast, River Valley/Southwest, representing the major corn producing areas of Arkansas. A map on page 5 shows the counties in each district. Industry representatives and Extension specialists choose hybrids to be entered, and hybrids were required to be commercially available and have been tested/or being tested in the University of Arkansas Corn Hybrid testing program. All hybrid trials were planted with the intention of being irrigated and all hybrids were glyphosate tolerant. Relative maturity of hybrids entered ranged from 113 to 118 days. A full list of hybrids entered along with relative maturity and traits can be found on page 24. Trials were strip trials and were not replicated, but multiple locations within a district do provide useful information on yield potential and agronomic considerations.

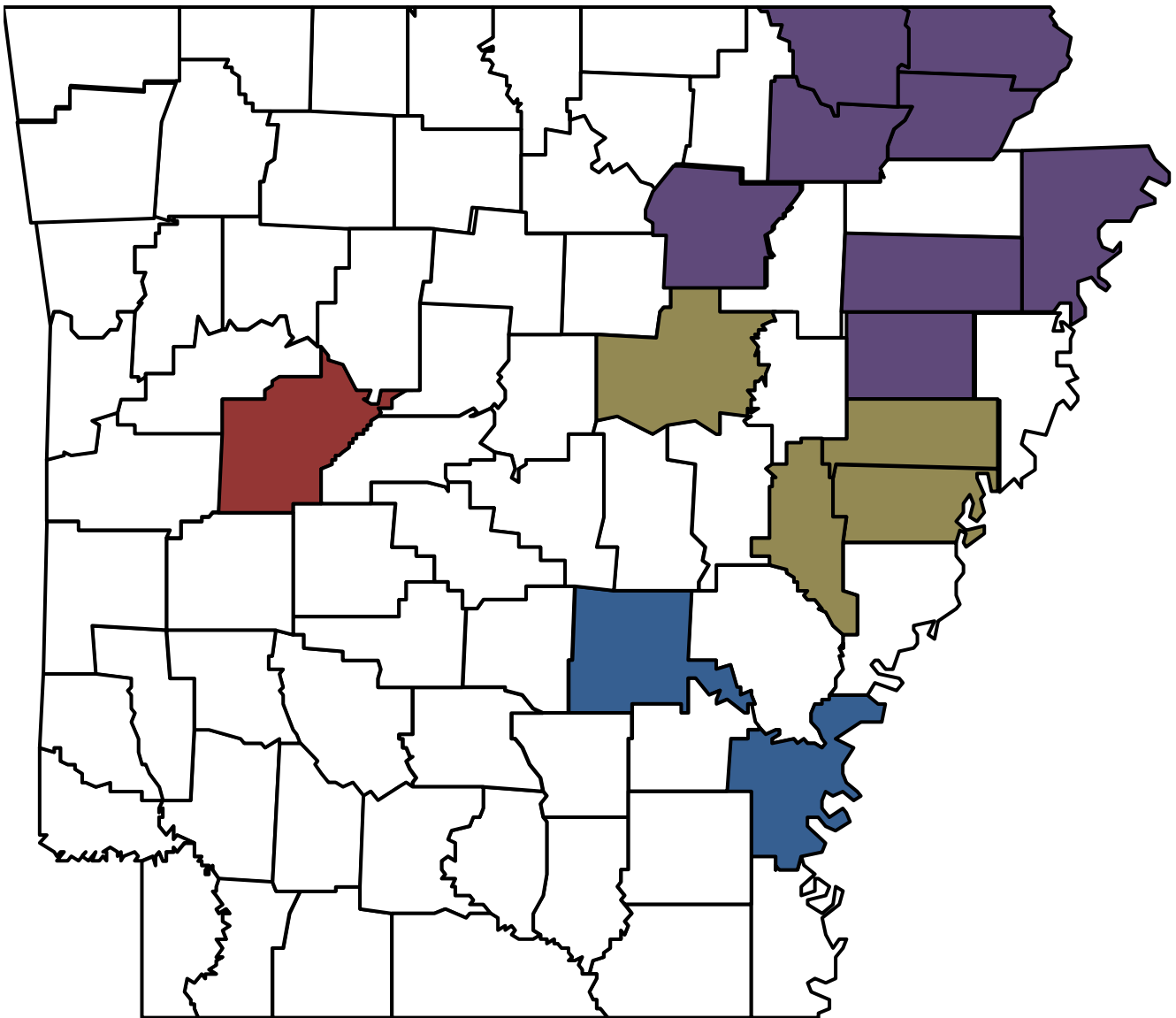
Information collected in each trial included; soil type, planting date, agronomic production practices utilized by each producer, final plant population, test weight, grain moisture at harvest, plant lodging and yield. Plots were planted with producer equipment and typically were four to eight rows wide by the length of field (500-1500 ft). Grain moisture and test weights were recorded by commercial or hand held grain analysis equipment. Grain yields were adjusted to 15.5% moisture. When lodging or greensnap occurred visual ratings were taken by County Extension agents, Extension specialists and/or producers.

In 2019 due to widespread flooding in March and April, several trials were not planted or resulted in poor plant stands or variable results. Therefore results from only 14 trials of the 24 planned trials were harvested and results reported. Planting dates ranged from March 29 to May 16 with an average planting date of April 20. Planting rates ranged from 30,000 to 36,000 seeds per acre with an average of 34,000.

The authors would like to express their gratitude to the producers, County Agents, and industry representatives that made these trials possible.

An electronic copy of this publication can be found at the following web address: www.uaex.edu/corn

Arkansas Corn Standardized County Hybrid Trials District Map

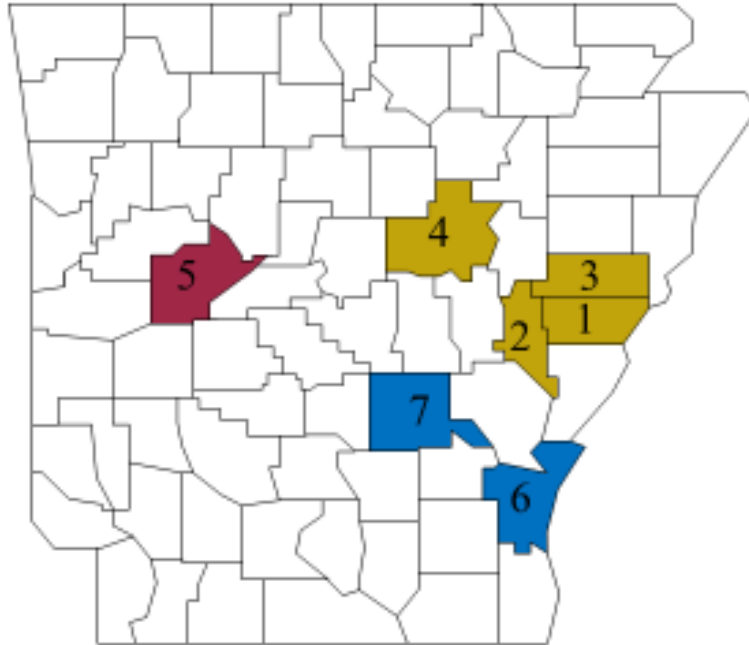


Southwest	Grey
River Valley	Red
Central	Olive
Southeast	Blue
Northeast	Purple

Central, River Valley and Southeast District Yield Summary

Hybrid	-----Central District Counties-----				--Southeast & River Valley District Counties--		
	Lee	Monroe	St Francis	White*	Yell	Desha	Jefferson
-----Yield Bu/Acre-----							
AgriGold A6544VT2RIB	245.3	231.6	248.1	229.4	---	178	---
AgriGold A6659VT2RIB	260.0	240.3	275.1	128.2	---	144	219.8
Armor 1447VT2P	252.6	213.6	---	223.9	160.6	184	210.2
Armor 1717VT2P	245.4	215.6	258.6	213.8	179.1	180	215.2
Croplan Genetics 5678VT2P	268.8	219.0	---	91.9	---	152	215.5
Dekalb DKC 66-75	275.1	239.9	264.2	220.2	179.3	193	---
Dekalb DKC 68-69	276.2	220.2	259.8	79.0	163.9	183	230.9
Dyna-Gro D54VC14	245.8	225.1	256.8	204.7	---	185	210.5
Dyna-Gro D58VC65	257.3	---	263.9	90.4	179.9	169	210.4
Local LC 1488VT2P	253.1	219.3	253.7	209.2	187.6	176	---
Local LC 1577VT2P	258.9	250.5	266.3	202.3	189.3	184	---
Progeny PGY 8116SS	--	--	--	--	--	186	---
Progeny PGY 9114VT2P	269.0	---	263.0	205.0	---	---	---
Progeny PGY 9117VT2P	247.7	235.4	244.6	210.1	---	184	---
Terral REV 26BHR30	246.7	---	248.9	236.9	176.5	188	210.1
Terral REV 28BHR18	242.7	219.3	237.9	233.4	171.2	172	212.0
Trial Mean	256.3	227.5	257.0	185.2	176.4	177.2	215.0
Row Spacing (inches)	30	30	38	30	30	38	30
Planting Date	April 24	April 23	April 23	April 29	April 2	April 27	April 29
<p>*Greensnap reduced yields of certain hybrids. See greensnap ratings in the individual County report.</p> <p><u>Central District:</u> A trial was planted in Prairie County, but was lost due to flooding. A trial in Woodruff County was not planted due to wet conditions during March and April</p> <p><u>Southeast District:</u> Ashley, Chicot, Lincoln, and Arkansas County trials were either planted and resulted in poor stands or were not planted due to wet conditions. Jefferson County trial was planted, and then replanted, but due to space constraints not all entries were included in the replant.</p> <p><u>River Valley and Southwest District:</u> Only Yell County had reportable results. Miller, Clark, Faulkner, and Logan County either lost trials due to flooding, were not planted due to wet conditions at planting, or had results that were too variable to report.</p>							

Central, River Valley, and Southeast Counties



- 1 – Lee County 2 – Monroe County 3 – St. Francis County 4- White County
5 – Yell County 6 – Desha County 7 – Jefferson County

Lee County

Grower: East AR Dept. of Correction

County Agent: Stan Baker

Location of Field: Brickeys

GPS:

Soil Type: Silt Loam

Previous Crop: Vegetables

Row Width: 30 inches

Planting Population: 36,000

Planting Date: April 24, 2019

Harvest Date: September 26, 2019

Irrigation Type and Frequency: Furrow irrigated 4 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	70	70	100	0	0
--- Sidedress	90	0	0	0	0
--- Pretassel	60	0	0	0	0
Total Fertility	220	70	100	0	0

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	245.7	13.4	35,500	2	58.4
AgriGold A6659VT2RIB	260.0	13.5	34,500	2	58.5
Armor 1447VT2P	252.6	13.2	33,500	2	58.2
Armor 1717VT2P	245.4	13.4	32,000	2	60.1
Croplan Genetics 5678VT2P	268.8	13.4	35,500	2	60.7
Dekalb DKC 66-75	275.1	13.2	34,000	2	59.1
Dekalb DKC 68-69	276.2	13.8	35,000	2	61.7
Dyna-Gro D54VC14	245.8	13.8	34,000	2	60.2
Dyna-Gro D58VC65	257.3	13.7	34,000	2	60.6
Local LC 1488VT2P	253.1	13.5	32,500	2	58.8
Local LC 1577VT2P	258.9	13.7	35,000	2	60.1
Progeny PGY 9114VT2P	269.0	13.4	34,000	2	60.0
Progeny PGY 9117VT2P	247.7	13.2	35,000	2	60.8
Terral REV 26BHR30	246.7	13.6	34,500	2	60.9
Terral REV 28BHR18	242.7	13.6	33,000	2	60.4
Trial Mean	256.3	13.5	34,133	2	59.9

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Monroe County

Grower: Todd & Taylor Smith

County Agent: Andrew Sayger, Robert Goodson

Location of Field: Roe

GPS: N 34.6283260 W 91.4018264

Soil Type: Stuttgart Silt Loam

Previous Crops: Soybean

Row Width: 30 inches

Planting Population: 35,000

Planting Date: April 23, 2019

Harvest Date: September 5, 2019

Irrigation Type and Frequency: Furrow irrigated 3 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	70	80	90	10	1
--- Sidedress	92	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	208	80	90	10	1

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	231.6	15.0	35,000	1	57.7
AgriGold A6659VT2RIB	240.3	17.1	34,000	1	58.9
Armor 1447VT2P	213.6	15.3	33,000	1	58.1
Armor 1717VT2P	215.6	17.7	33,000	1	58.2
Croplan Genetics 5678VT2P	219.0	16.3	34,000	1	58.1
Dekalb DKC 66-75	240.0	16.2	34,000	1	57.3
Dekalb DKC 68-69	220.2	18.4	33,000	1	57.5
Dyna-Gro D54VC14	225.0	15.6	33,000	1	58.4
Dyna-Gro D58VC65	---	16.4	31,000	1	58.4
Local LC 1488VT2P	219.3	14.7	35,000	1	57.4
Local LC 1577VT2P	250.6	14.7	35,000	1	59.1
Progeny PGY 9114VT2P	---	15.6	32,000	1	57.9
Progeny PGY 9117VT2P	235.4	17.2	35,000	1	59.3
Terral REV 26BHR30	---	17.2	32,000	1	58.7
Terral REV 28BHR18	219.3	18.4	32,000	1	57.1
Trial Mean	219.7	16.39	33,400	1	58.1

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

St. Francis County

Grower: West Higgins

County Agent: Cody Griffin

Location of Field: Colt

GPS:

Soil Type: Silt Loam

Previous Crop: Cotton

Row Width: 38 inches

Planting Population: 30,000

Planting Date: April 23, 2019

Harvest Date: September 11, 2019

Irrigation Type and Frequency: Furrow irrigated 3 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant					
--- Sidedress					
--- Pretassel					
Total Fertility					

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	248.1	14.5	30,000	1	57.6
AgriGold A6659VT2RIB	275.1	15.4	30,000	1	61.8
Armor 1414VT2P	---	---	---	---	---
Armor 1717VT2P	258.6	13.4	30,000	1	54.9
Croplan Genetics 5678 VT2P	---	---	---	---	---
Dekalb DKC 66-75	264.2	15.0	30,000	1	59.1
Dekalb DKC 68-69	259.8	15.3	30,000	1	61.4
Dyna-Gro D54VC14	256.8	12.9	30,000	1	62.7
Dyna-Gro D58VC65	263.9	13.8	30,000	1	62.8
Local LC 1488VT2P	253.7	13.5	30,000	1	62.4
Local LC 1577VT2P	266.3	14.0	30,000	1	59.8
Progeny PGY 9114VT2P	263.0	14.0	30,000	1	61.1
Progeny PGY 9117VT2P	244.6	16.2	30,000	1	60.2
Terral REV 26BHR30	248.9	15.9	30,000	1	62.1
Terral REV 28BHR18	237.9	16.1	30,000	1	60.3
Trial Mean	257.0	14.6	30,000	1	60.5

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

White County

Grower: Keith Feather

County Agent: Jan Yingling

Location of Field: Griffithville

GPS: N 35.092561 W -91.623420

Soil Type: Calhoun Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 35,000

Planting Date: April 29, 2019

Harvest Date: September 4, 2019

Irrigation Type and Frequency: Furrow irrigated 5 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	42	90	90	48	5
--- Sidedress	123	0	0	0	0
--- Pretassel	105	0	0	0	0
Total Fertility	270	90	90	48	5

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Greensnap Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	229.4	16.8	34,000	4	58.0
AgriGold A6659VT2RIB	128.2	16.0	35,000	8	58.9
Armor 1447VT2P	223.9	17.0	32,000	4	60.6
Armor 1717VT2P	213.8	16.5	35,000	4	60.5
Croplan Genetics 5678VT2P	91.9	16.1	36,000	10	58.3
Dekalb DKC 66-75	220.2	17.3	34,000	3	57.7
Dekalb DKC 68-69	79.0	18.1	34,000	10	59.7
Dyna-Gro D54VC14	204.7	15.9	35,000	4	58.8
Dyna-Gro D58VC65	90.4	21.3	31,000	10	58.3
Local LC 1488VT2P	209.2	16.3	38,000	1	58.5
Local LC 1577VT2P	202.3	16.7	37,000	7	59.5
Progeny PGY 9114VT2P	205.0	16.2	31,000	3	60.5
Progeny PGY 9117VT2P	210.1	17.4	35,000	7	58.1
Terral REV 26BHR30	236.9	18.1	37,000	1	59.6
Terral REV 28BHR18	233.4	18.1	35,000	4	56.6
Trial Mean	185.2	17.2	34,600	5.3	58.9

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Visual greensnap ratings from mid-season wind storm, 1 is no greensnap, 10 is nearly completely greensnapped

Yell County

Grower: Chris Mans

County Agent: Bob Powell

Location of Field: Cotton Town

GPS: N 35° 06.995 W 93° 02.404

Soil Type: Dardanelle Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 32,000

Planting Date: April 2, 2019

Harvest Date: September 12, 2019

Irrigation Type and Frequency: Furrow irrigated 0 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	120	120	120	0	0
--- Sidedress	100	0	0	0	0
--- Pretassel	70	0	0	0	0
Total Fertility	290	120	120	0	0

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
Armor 1447VT2P	160.6	12.4	30,000	-	53.7
Armor 1717VT2P	179.1	12.1	26,000	-	62.2
Dekalb DKC 66-75	179.3	12.8	28,000	-	58.9
Dekalb DKC 68-69	163.9	12.5	27,000	-	60.8
Dyna-Gro D58VC65	179.9	12.2	32,000	-	61.5
Local LC 1488VT2P	187.6	12.3	28,000	-	60.0
Local LC 1577VT2P	189.3	12.6	32,000	-	60.0
Terral REV 26BHR30	176.5	12.3	29,000	-	58.2
Terral REV 28BHR18	171.2	12.0	29,000	-	58.6
Trial Mean	176.4	12.4	29,000	-	59.3

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Desha County

Grower: Appleberry's

County Agent: John D. Farabough

Location of Field: Near Tillar

GPS:

Soil Type: Hebert Silt Loam

Previous Crop: Soybeans

Row Width: 38 inches

Planting Population: 34,000

Planting Date: April 27, 2019

Harvest Date: September 18, 2019

Irrigation Type and Frequency: Furrow irrigated 5 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant					
--- Sidedress					
--- Pretassel					
Total Fertility					

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	178	15.3			
AgriGold A6659VT2RIB	144	16.1			
Armor 1447VT2P	184	15.3			
Armor 1717VT2P	180	17.1			
Croplan Genetics 5678VT2P	152	16.2			
Dekalb DKC 66-75	193	17.0			
Dekalb DKC 68-69	183	18.7			
Dyna-Gro D54VC14	185	15.6			
Dyna-Gro D58VC65	169	15.4			
Local LC 1488VT2P	176	14.6			
Local LC 1577VT2P	184	15.3			
Progeny PGY 8116SS	186	17.6			
Progeny PGY 9117VT2P	184	17.4			
Terral REV 26BHR30	188	17.2			
Terral REV 28BHR18	172	18.0			
Trial Mean	177	16.5			

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Jefferson County

Grower: Kris Baker

County Agent: Kurt Beaty

Location of Field: Pine Bluff

GPS:

Soil Type: Silt Loam

Previous Crop: Soybeans

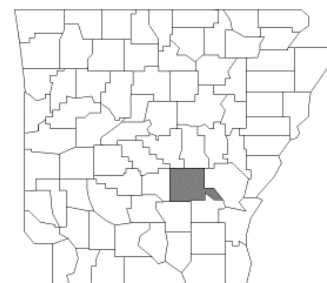
Row Width: 38 inches

Planting Population: 34,000

Planting Date: April 29, 2019

Harvest Date: September 10, 2019

Irrigation Type and Frequency: Furrow irrigated 4 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant					
--- Sidedress					
--- Pretassel					
Total Fertility	250	120	100	20	0

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6659VT2RIB	219.8	14.4	34,000	1	-
Armor 1447VT2P	210.2	16.5	33,000	1	-
Armor 1717VT2P	215.2	16.3	33,000	1	-
Croplan Genetics 5678VT2P	215.5	14.6	32,000	1	-
Dekalb DKC 68-69	230.9	14.1	33,000	1	-
Dyna-Gro D54VC14	210.5	13.9	34,000	1	-
Dyna-Gro D58VC65	210.4	16.4	32,000	1	-
Terral REV 26BHR30	210.1	20.8	34,000	1	-
Terral REV 28BHR18	212.0	15.4	34,000	1	-
Trial Mean	215.0	15.8	33,222	1	-

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

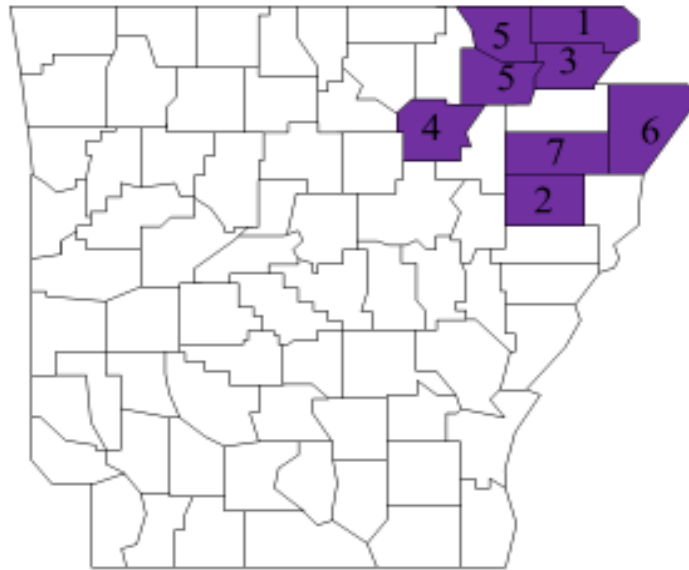
³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Northeast District Summary

	-----*Northeast District Counties-----							
Hybrid	Cross	Clay	Greene	Lawrence	Mississippi	Independence	Poinsett	Average
	-----Yield Bu/Acre-----							
AgriGold A6544VT2RIB	258.4	228.3	267.0	213.7	219.0	175.6	218.7	225.8
AgriGold A6659VT2RIB	---	240.8	257.0	202.5	220.8	192.3	212.8	221.0
Armor 1447VT2P	---	232.7	237.0	232.3	216.6	201.4	230.4	225.1
Armor 1717VT2P	239.4	210.2	245.0	191.5	220.5	175.7	214.6	213.8
Croplan Genetics 5678VT2P	255.9	224.3	229.0	201.2	206.1	193.5	233.9	220.6
Dekalb DKC 66-75	257.5	228.5	267.0	225.6	220.0	194.3	221.9	230.7
Dekalb DKC 68-69	258.1	241.4	269.0	203.1	206.3	205.3	223.3	229.5
Dyna-Gro D54VC14	243.0	228.2	256.0	195.1	207.0	199.5	237.3	223.7
Dyna-Gro D58VC65	263.8	214.3	244.0	205.5	211.6	191.0	227.9	222.6
Local LC 1488VT2P	237.8	213.9	214.0	206.4	209.6	---	---	216.3
Local LC 1577VT2P	251.9	196.2	232.0	203.7	203.4	191.1	225.2	214.8
Progeny PGY 9114VT2P	257.1	207.7	239.0	213.8	208.6	---	226.0	225.4
Progeny PGY 9117VT2P	246.9	219.7	229.0	192.3	223.0	170.3	233.7	216.4
Terral REV 24BHR70	228.2	195.8	254.0	190.0	194.8	184.6	228.6	210.9
Terral REV 26BHR30	254.6	223.7	265.0	201.0	211.2	171.2	228.3	222.1
Trial Mean	250.2	220.4	246.9	205.2	211.9	188.1	225.9	221.2
Row Spacing (inches)	30	30	30	30	38	30	38	
Planting Date	April 3	April 9	March 29	April 29	May 16	April 12	April 30	April 18

*A trial was conducted in Craighead County, but due to yield variability, results are not reported

Northeast District Counties



- 1 – Clay County 2 – Cross County 3 – Greene County 4 – Independence County
5 – Lawrence/Randolph County 6 – Mississippi County 7- Poinsett County

Clay County

Grower: Zack Brown Farm

Location of Field: Corning

Soil Type: Beulah Fine Sandy Loam

Row Width: 30 inches

Planting Date: April 9, 2019

Irrigation Type and Frequency: Furrow irrigated 4 times

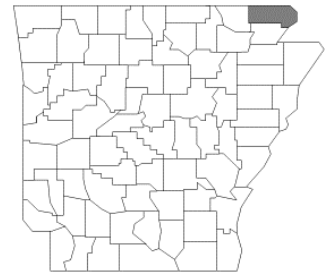
County Agent: Allison Howell &
Stewart Runsick

GPS: 36.420626, -90.672546

Previous Crop: Soybean

Planting Population: 33,000

Harvest Date: September 20, 2019



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	80	60	115	30	5
--- Sidedress	135	0	0	20	0
--- Pretassel	45	0	0	0	0
Total Fertility	260	60	115	50	5

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	228.3	12.4	29,928	1	58.0
AgriGold A6659VT2RIB	240.8	12.6	29,928	1	60.8
Armor 1447VT2P	232.7	12.5	29,406	1	61.7
Armor 1717VT2P	210.2	13.1	27,840	1	59.6
Croplan Genetics 5678VT2P	224.3	12.7	29,928	1	62.4
Dekalb DKC 66-75	228.5	12.6	29,058	1	59.7
Dekalb DKC 68-69	241.4	12.8	31,146	1	60.6
Dyna-Gro D54VC14	228.2	12.6	30,450	1	61.3
Dyna-Gro D58VC65	214.3	12.3	29,754	1	61.7
Local LC 1488VT2P	213.9	12.4	31,320	1	58.1
Local LC 1577VT2P	196.2	12.8	30,450	1	60.7
Progeny PGY 9114VT2P	207.7	12.7	28,188	1	60.1
Progeny PGY 9117VT2P	219.7	13.2	31,146	1	61.3
Terral REV 24BHR70	195.8	13.0	30,276	1	59.6
Terral REV 26BHR30	223.7	12.5	28,884	1	62.5
County Average	220.4	12.7	29,846	1	60.5

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Cross County

Grower: Penndale Farms

County Agent: Rick Wimberley

Location of Field: Vanndale

GPS: N 35.329070 W -90.791509

Soil Type: Henry Silt Loam

Previous Crop: Soybean

Row Width: 30"

Planting Population: 32,000

Planting Date: April 3, 2019

Harvest Date: October 16, 2019



Irrigation Type and Frequency: Furrow irrigated 5 times

Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	80	80	80	20	10
--- Sidedress	211	0	0	10	0
--- Pretassel	46	0	0	10	0
Total Fertility	337	80	80	40	10

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	258.4	12.5	25,000	1	58.3
AgriGold A6659VT2RIB	---	12.5	46,000	1	61.2
Armor 1447VT2P	---	12.8	31,000	1	59.9
Armor 1717VT2P	239.4	12.3	27,000	1	62.3
Croplan Genetics 5678VT2P	255.9	12.8	27,500	1	62.8
Dekalb DKC 66-75	257.5	12.9	25,000	1	58.3
Dekalb DKC 68-69	258.1	13.3	26,500	1	60.2
Dyna-Gro D54VC14	243.0	12.7	27,000	1.5	61.1
Dyna-Gro D58VC65	263.8	12.5	24,500	1	62.3
Local LC 1488VT2P	237.8	12.7	24,000	1	60.6
Local LC 1577VT2P	251.9	12.8	27,000	1.25	61.8
Progeny PGY 9114VT2P	257.1	13.1	25,000	1	60.5
Progeny PGY 9117VT2P	246.9	13.0	26,500	1	59.6
Terral REV 24BHR70	228.2	12.8	26,000	1	60.7
Terral REV 26BHR30	254.6	12.9	24,500	1	63.7
County Average	250.2	12.8	25,807	1.1	60.9

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Greene County

Grower: Derek & Royce Boling

Location of Field: Paragould

Soil Type: Calhoun Silt Loam

Row Width: 30 inches

Planting Date: March 29, 2019

Irrigation Type and Frequency: Furrow irrigated 4 times

County Agent: Freeze, Davis, Blythe

GPS:

Previous Crop: Soybean

Planting Population: 35,000

Harvest Date: September 5, 2019



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	60	60	120	12	0
--- Sidedress	160	0	0	30	0
--- Pretassel	46	0	0	0	0
Total Fertility	266	60	120	42	0

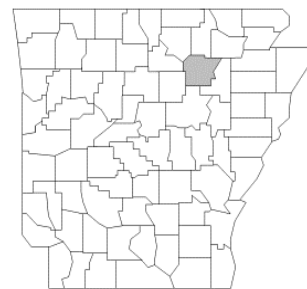
Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	267	15.2	33,000	1	58.4
AgriGold A6659VT2RIB	257	16.4	32,000	1	59.6
Armor 1447VT2P	237	15.3	32,000	1	60.5
Armor 1717VT2P	245	16.7	32,000	1	59.3
Croplan Genetics 5678VT2P	229	16.2	31,000	1	60.0
Dekalb DKC 66-75	267	15.4	34,000	1	59.1
Dekalb DKC 68-69	269	16.5	32,000	1	60.4
Dyna-Gro D54VC14	256	15.0	30,000	1	61.1
Dyna-Gro D58VC65	244	15.1	32,000	1	60.3
Local LC 1488VT2P	214	15.0	32,000	1	59.1
Local LC 1577VT2P	232	15.1	33,000	1	60.5
Progeny PGY 9114VT2P	239	14.7	33,000	1	60.6
Progeny PGY 9117VT2P	229	16.1	33,000	1	59.2
Terral REV 24BHR70	254	15.5	31,000	1	58.5
Terral REV 26BHR30	265	15.9	33,000	1	62.0
County Average	247	16.0	32,000	1	60.0

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Independence County



Grower: David Panky Jr

County Agent: Nathan Reinhart

Location of Field: Oil Trough

GPS:

Soil Type: Silt Loam

Previous Crop: Soybean

Row Width: 30"

Planting Population: 32,000

Planting Date: April 12, 2019

Harvest Date: September 19, 2019

Irrigation Type and Frequency: Furrow irrigated 4 times

Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	0	0	60	0	0
--- Sidedress	190	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	236	0	60	0	0

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	175.6	12.0	30,000	1	60.0
AgriGold A6659VT2RIB	192.3	11.9	30,000	1	60.1
Armor 1447VT2P	201.4	12.3	28,000	1	61.0
Armor 1717VT2P	175.7	12.1	24,000	3	62.2
Croplan Genetics 5678VT2P	193.5	12.5	29,000	2	60.8
Dekalb DKC 66-75	194.3	11.3	28,000	1	61.1
Dekalb DKC 68-69	205.3	13.4	28,000	1	59.3
Dyna-Gro D54VC14	199.5	12.2	30,000	1	56.7
Dyna-Gro D58VC65	191.0	12.5	27,000	1	60.7
Local LC 1488 VT2P	---	12.4	29,000	1	55.4
Local LC 1577VT2P	191.0	11.8	28,000	1	62.6
Progeny PGY 9114VT2P	---	12.9	30,000	1	61.0
Progeny PGY 9117VT2P	170.3	12.3	30,000	1	62.5
Terral REV 24BHR70	184.6	12.5	31,000	1	61.3
Terral REV 26BHR30	171.2	12.2	29,000	1	61.6
County Average	188.1	12.2	28,615	1.2	60.4

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Lawrence County

Grower: Ron Cavenaugh

County Agent: Baldrige, Sisk, Andrews

Location of Field: Walnut Ridge

GPS: 35.932510, -90.909718

Soil Type: Beulah Sandy Loam

Previous Crop: Soybean

Row Width: 30 inches

Planting Population: 34,000

Planting Date: April 29, 2019

Harvest Date: September 17, 2019

Irrigation Type and Frequency: Furrow irrigated 4 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	60	0	0	0	1
--- Sidedress	144	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	250	0	0	0	1

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	213.7	12.5	34,250	1	59.6
AgriGold A6659VT2RIB	202.5	12.7	31,750	1	59.9
Armor 1447VT2P	232.3	12.1	33,750	1	60.7
Armor 1717VT2P	191.5	12.9	30,500	1	61.3
Croplan Genetics 5678VT2P	201.2	12.1	31,750	1	60.4
Dekalb DKC 66-75	225.6	12.0	32,750	1	59.9
Dekalb DKC 68-69	203.1	13.9	31,000	1	61.1
Dyna-Gro D54VC14	195.1	12.3	31,750	1	59.8
Dyna-Gro D58VC65	205.5	12.3	29,500	1	59.9
Local LC 1488VT2P	206.4	12.1	33,000	1	58.9
Local LC 1577VT2P	203.7	12.2	31,250	1	60.5
Progeny PGY 9114VT2P	213.8	12.7	35,500	1	59.6
Progeny PGY 9117VT2P	192.3	13.1	32,000	1	61.3
Terral REV 24BHR70	190.0	12.3	34,000	1	60.1
Terral REV 26BHR30	201.0	12.3	31,250	1	60.9
County Average	205.2	12.5	32,266	1	60.3

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Mississippi County

Grower: Jason Bennett

County Agent: Shawn Lancaster

Location of Field: Bassett

GPS:

Soil Type: Forestdale Silty Clay Loam

Previous Crop: Soybean

Row Width: 38 inches

Planting Population: 36,000

Planting Date: May 16, 2019

Harvest Date: September 28, 2019

Irrigation Type and Frequency: Furrow irrigated 4 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	60	0	0	0	1
--- Sidedress	144	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	250	0	0	0	1

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	219.0	14.2	37,000	1	57.7
AgriGold A6659VT2RIB	220.8	13.9	35,000	1	60.3
Armor 1447VT2P	216.6	13.5	39,000	1	59.8
Armor 1717VT2P	220.5	14.2	38,000	1	59.6
Croplan Genetics 5678VT2P	206.1	13.8	38,000	1	60.8
Dekalb DKC 66-75	220.0	13.5	39,000	1	59.4
Dekalb DKC 68-69	206.3	14.4	37,000	1	61.2
Dyna-Gro D54VC14	207.0	13.7	37,000	1	58.4
Dyna-Gro D58VC65	211.6	13.5	36,000	1	60.6
Local LC 1488VT2P	209.6	13.5	36,000	1	58.1
Local LC 1577VT2P	203.4	14.0	38,000	1	59.7
Progeny PGY 9114VT2P	208.6	13.4	35,000	1	59.5
Progeny PGY 9117VT2P	223.0	13.9	37,000	1	61.7
Terral REV 24BHR70	194.8	13.4	38,000	1	60.3
Terral REV 26BHR30	211.2	14.0	36,000	1	60.3
County Average	211.9	13.8	37,067	1	59.8

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Poinsett County

Grower: Dustin Faulkner

County Agent: Craig Allen & Jeffery Works

Location of Field: Bay Village

GPS:

Soil Type: Falaya Silt Loam

Previous Crop: Soybean

Row Width: 38 inches

Planting Population: 36,000

Planting Date: April 30, 2019

Harvest Date: September 12, 2019

Irrigation Type and Frequency: Furrow irrigated 6 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	44.2	72.5	90.5	7.2	0.3
--- Sidedress	158.5	0	0	28.3	0
--- Pretassel	46	0	0	0	0
Total Fertility	249	73	91	36	0.3

Hybrid	Adjusted Yield bu/ac ¹	Harvest Moisture %	Final Plant Population ²	Lodging Score ³	Test Wt lb/bu
AgriGold A6544VT2RIB	218.7	15.8	34,000	1	60.9
AgriGold A6659VT2RIB	212.8	15.7	34,000	1	63.1
Armor 1447VT2P	230.4	15.9	32,000	1	58.0
Armor 1717VT2P	214.6	16.3	31,000	1	61.6
Croplan Genetics 5678VT2P	233.9	15.9	33,000	1	61.6
Dekalb DKC 66-75	221.9	15.7	36,000	1	62.4
Dekalb DKC 68-69	223.3	17.8	36,000	1	58.2
Dyna-Gro D54VC14	237.3	16.1	27,000	1	61.7
Dyna-Gro D58VC65	227.9	15.5	32,000	1	62.5
Local LC 1488 VT2P	---	15.4	30,000	1	60.1
Local LC 1577VT2P	225.2	15.6	34,000	1	61.2
Progeny PGY 9114VT2P	226.0	16.0	30,000	1	59.8
Progeny PGY 9117VT2P	233.7	16.4	34,000	1	62.4
Terral REV 24BHR70	228.6	16.6	31,000	1	57.5
Terral REV 26BHR30	228.3	17.4	31,000	1	60.2
County Average	225.9	16.1	32,300	1	60.7

¹ Yield is adjusted to 15.5% moisture.

² Final Plant Population is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Appendix A. Corn Hybrid Relative Maturity & Traits

Hybrid	Relative Maturity	Trait
AgriGold 6544VT2PRO	113	Genuity VT Double Pro
AgriGold 6659VT2PRO	116	Genuity VT Double Pro
Armor 1447VT2P	114	Genuity VT Double Pro
Armor 1717VT2P	117	Genuity VT Double Pro
Croplan Genetics 5678VT2P	116	Genuity VT Double Pro
DeKalb DKC 66-75	116	Genuity VT Double Pro
DeKalb DKC 68-69	118	Genuity VT Double Pro
Dyna-Gro 54VC14	114	Genuity VT Double Pro
Dyna-Gro 58VC65	118	Genuity VT Double Pro
Local Seed LC1488VT2P	114	Genuity VT Double Pro
Local Seed LC1577VT2P	115	Genuity VT Double Pro
Progeny PGY 8116SS	116	Genuity SmartStax
Progeny PGY 9114VT2P	114	Genuity VT Double Pro
Progeny PGY 9117VT2P	117	Genuity VT Double Pro
Terral REV 24BHR70	114	Herculex, Roundup Ready Corn 2, Liberty Link, YieldGard Corn Borer
Terral REV 26BHR30	116	Herculex, Roundup Ready Corn 2, Liberty Link, YieldGard Corn Borer
Terral REV 28BHR18	118	Herculex, Roundup Ready Corn 2, Liberty Link, YieldGard Corn Borer

2019 Arkansas Corn Standardized Hybrid Trial Participants

Armor and Croplan Genetics

Armor Seed
2532 Alexander Dr.
Jonesboro, AR 72429

DeKalb

Bayer Crop Science
800 N. Lindbergh Blvd.
St. Louis, MO 63167

Local Seed

Local Seed Company
802 Rozelle Street
Memphis, TN 38104

Terral

Terral Seed Inc.
117 Ellington Dr.
Rayville, LA 71269

AgriGold

AgriGold Hybrids
5381 Akin Rd
St Francisville, IL 62460

Dyna-Gro

Nutrien Ag Solutions
3005 Rocky Mountain Drive
Loveland, CO 80538

Progeny

Progeny Ag Products
1529 Highway 193
Wynne, AR 72396



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